

POWER SUPPLY SHUTDOWN CONTROL

ABSTRACT OF THE DISCLOSURE

When a power supply is turned off its output voltages decrease over certain times. If the power supply is turned back on before the output voltages have had time to decrease to a level required by certain electronic circuits before power is reapplied, then these electronic circuits may malfunction or latch-up. A power supply shutdown control monitors voltage levels of the power supply. The power supply shutdown control prevents the power supply from being turned back on before the output voltages have reached a sufficiently low voltage level. A voltage reset monitor determines when a power supply voltage drops below a certain level, and then a memory device stores the instance of a power supply voltage drop and uses the stored instance to prevent the power supply from being turned on until the monitored voltage(s) have reached the sufficiently low voltage level. Then, the stored instance is reset and the power supply may be re-energized.